		AGENCY USE ONL	The second secon		
	MIT NO.:	Date Rec'd.: 12 9 / ()	Amount Rec'	Check No.:	Rec'd By:
	B	ntana Depart NVIRONME ER PROTECTION	ITAL QI	ALITY	
FORM	Notice of Intent (NOD for Mon	ana Pollutio	n Discharge El	limination
NOI	System Applic	ation for New a Feeding	and Existing g Operations	Concentrated	Animal
(CAFO) or Aquatic form. You must prin maintain a copy of the	m is to be completed by Animal Production Faci at or type legibly; forms the completed application	ility. Please read the that are not legible n form for your rec	attached instructor are not complete	tions before comple	eting this
Section A - Applica	tion Status (Check one)	•			
New	No prior applic	cation submitted for	this site.	RECEIVE	
Resubmitted	Permit Numbe				Port Million
✓ Renewal	Permit Number	r: MTG 0 1 0 1	5 3	DEC 0 9 20	13
Modification	Permit Numb	per: MTG		DEQ/WP8 PERMITTING & COMPLIA	ANCE DIV
_	or Site Information (S	ee instruction sheet.)	*		
Site Name pleasant					
Site Location 734 Me	cCoy Road				
Nearest City or Town	n Belt MT 59412		CountyCasca	de (2/	9/13
Latitude 111* 02'59	OVV	Longit	ude 47* 20'21N	T	
Date Facility began					
Is this facility or site	located on Indian Land	ls? 🗌 Yes 🗸 N	lo		
Section C - Applica	nt (Owner/Operator)	Information:			
Mailing Address 734	Name Peter J. Wipf / 4 McCoy Road	Mike J. Hofer			Area
City, State, and Zip C	Code Belt MT 59412 6-736-5205 ext.606				
***************************************	bove the owner? 🗸 Ye	es No			A CONTRACTOR OF THE CONTRACTOR
	neck one) Federal		Public Othe	er (specify)	

Section.	D Ewisting or Done	Jina nita (Ya-4:Clastions on	A	
- m	D - Existing or Pend DES MTG010153	ımg nus, c	Certifications, or A		
☐ MPD	DES MITOGRAPIO			CCRA	
☐ PSD	(Air Emissions)		C	Other	
404 I	Permit (dredge & fill))		Other	
Section	n E – Standard Indu	strial Classifica	ation (SIC) Codes	S:	
Provid	le at least one SIC code	which best refle	ects the activity of p	roject described in Section H.	
Code	A. P	rimary	Code	B. Second	
1	2.4mil. glass line	ed slurry (199	94) 2 1,	9mil.concrete slurry tank (2010)	
Code	C.	Third	Code	D. Fourth	
3	Renovated Dairy	/ 2007	3 R	enovated Hog barn 2005/2010	
Section	F - Facility or Site (Contact Person	/Position:		
	nd Title, or Position T			Mike J. Hofer	
	Address 734 McCo				-
	ate, and Zip Code Bel				-
	4 4	06-736-5205 e			
Phone N	vanioci		-Xt.000		-
Section	G - Receiving Surfa	ace Waters(s):			
- Control	Outfall/Discharge Lo		•	e and longitude to the nearest second and	
Thirties of the state of the st		the	name of the receiving	ng waters	
	Outfall Number	Latitude	Longitude	Receiving Surface Waters	
	001	47*20'26.9'N	111*2'28.49W	Unnamed drainage of Spring Creek.	
	002				
-	003				
	004			·	
	005				
	CONTRACTOR STREET				
es					
THE CASE OF THE CA					
Section E above. A	B depicting the facility also identify the specific	or activity bound c location of the p	laries, major drainag production area, and	perty boundaries or the site activity identified in ge patterns, and the receiving surface waters, stated I land application area(s).	
Section E above. A	B depicting the facility	or activity bound c location of the p	laries, major drainag production area, and	ge patterns, and the receiving surface waters, stated application area(s).	
Section E above. A	B depicting the facility also identify the specific	or activity bound c location of the p	laries, major drainag production area, and	ge patterns, and the receiving surface waters, stated I land application area(s). The phosphorus Yes No	
Section E above. A	B depicting the facility also identify the specific	or activity bound c location of the p	laries, major drainag production area, and	ge patterns, and the receiving surface waters, stated I land application area(s). The phosphorus Yes No RECEIVED	
Section E above. A	B depicting the facility also identify the specific	or activity bound c location of the p	laries, major drainag production area, and	ge patterns, and the receiving surface waters, stated I land application area(s). The phosphorus Yes No	
Section E above. A	B depicting the facility also identify the specific	or activity bound c location of the p	laries, major drainag production area, and	ge patterns, and the receiving surface waters, stated I land application area(s). The phosphorus PECEIVED SEP 1 1 2014 DEGWER	
Section E above. A	B depicting the facility also identify the specific	or activity bound c location of the p	laries, major drainag production area, and	ge patterns, and the receiving surface waters, stated I land application area(s). The phosphorus Yes No RECEIVED SEP 1 1 2014	

Section H – Concentration Animal Feeding Operation Characteristics
Waste Production, Storage and Disposal

1	te Production, Storage and Disposar	Number in Open	Number Housed Under
	Animal type	Confinement	Roof
	Mature Dairy Cows	60	250
	Dairy Heifers	135 5months max.	15
	Veal Calves	250 in wtr. 5 months max	100
	Cattle (not dairy or veal)	400 60 days max	
	Swine (55 lbs or over)		2100
	Swine (55 lbs or under)		1600
	Horses		The second secon
	Sheep or Lambs		
	Turkeys	500	
	Chickens (broilers)		900
	Chickens (layers)		8200
	Ducks	900	- Control of the Cont
	Other (Specify:)		
	Other (Specify:)		
	Other (Specify:)		

•	Litter and/or Wastewater In manure, litter, and process	Production and Use. wastewater is generated annually by the facility?
Solid (tons	s):1050 tons	Liquid/Slurry (gallons):6,950,000
		d under control of the permit applicant are available to apply the manure, litter, or
process wa 2600		e facility? (Note: Do not include setback distances in available acreage Acres
How much	manure, litter, and process	wastewater is transferred to other persons per year? (estimated) Solid
(tons):none	9	Liquid/Slurry (gallons):none
Were the c	ontainment structures built	after February 2006?
Ø	Do the waste containment formations?	structures have 10 feet of separation between the pond bottom and any bedrock
		structures have 4 feet of separation from the pond bottom and any ground water? ntainment structures built within 500 feet of any existing well?

Section J - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations, [75-5-633, MCA1

A. Name (Type or Print)		
Peter J. Wipf Mike J. Hofer		
B. Title (Type or Print)		C. Phone No. <i>ant.</i> 606 1-406-736-5205
Operator		1-406-736-5205
D. Signatuje	_	E. Date Signed
Sete O is off	Wike J. Woled	11-29-2013

The Department will not process this form until all of the requested information is supplied and the appropriate

Department of Environmental Quality Water Protection Bureau PO Box 200901 Helena, MT 59620-0901 (406) 444-3080

	AGENCY US	E ONLY		
PERMIT NO.:	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:
		6 •		
		_		

Montana Department of Environmental Quality

WATER PROTECTION BUREAU

FORM NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A - NMP Sta			
New	No prior NMP submitted for this site.		
Police to to a	P	RECEIVED	MENTED.
Resubmitted	Previous NMP found incomplete.	Property R. T.	MINK IN
Modification	Change or update to existing NMP.	nec a a 2013	EC
Department of the Control of the Con	Change of update to existing 141411.	DEC 0 9 2013	1 0 % 7010
☑New 2013	New 2013 version of NMP.	DEQMPB	DEQMPB
Section B – Facility I		PERIVIT TING & COMPLIANCE DIV	ING & COMPENANCE DIV
Facility Name Please			
Facility Location 734	Mc Coy Road		
Nearest City of Town		County Cascade	
		County	
	nt (Owner/Operator Information):		
	ame Peter J. Wipf Mike J. Hofer		
Mailing Address 734			
City, State, and Zip co			
	er 1-406-736-5205 ext. 606		
Email None			

Section D - NMP Minimum Elements:

1. Livestock Statistics			
Animal Type and number of animals Back cows 400	# of Days on Site (pe	Annual Manure Production (toms, cu. vds. or gal	
1. Hogs 55 lbs. or over 2100	36	55 days	Total for all hogs:
2. Hogs 55 lbs. or under 1600	365 days		3,500,000 gal.
3. Dairy cows 250/35 in open	confinement.	365days	Total for all cows:
4. Dairy hfrs. 150/135 in open	confinement.	165 days	3,200,000 gal.
5. Veal calves 250/150 in ope	confinement.	200 days	
6. Ducks 900	120 da	ys	8 tons
7. Layerchicken&broilers9100	365 days		15 tons
8. Turkeys 500	140 da	ys	3 tons

Method used for estimating annual manure production:

We have a flow meter in place that reads gallons. Updated last year.

2. Manure Handling

a. Describe Manure handling at the facility:

Manure is piped out to field with pipiline and then injected into ground with plow. Some sections are drained each week to 2 above ground slurry tanks.

b.	Frequency	of	Manure	Removal	from	confinement areas:

It varies from once a week to every 6 weeks.

c. Is this manure temporarily stored in any location other than the confinement area? Yes No If so then how and where?

It is pumped to a (180 day storage) slurry tank. /Most of the straw pack is stored in lots where cattle are confined in. It is then hauled in spring and fall. Those same lots are contained with dirt berms or concrete walls and that water is piped to a evaporative pond.

d. Is manure stored on impervious surface? Yes No

If yes, describe type and characteristics of this surface:

The rest of the straw pack(which is not much) is stored in location where there is a adequate filter strip of brush and grass. No water way close by.

3. Waste Control St	ructures				
Waste Control	Length	Width	Depth	Volume	Number of
Structures	(ft.)	(ft.)	(ft.)	(cubic ft.	days of
(name/type)				or gallons)	storage
1. Slurry store		120	28	2,240,000	180
² ·Slurry store		150	16	2,000,000	180
3. Layer barn pit	56	16	7	49,000 gal.	70
4. Open lot	275	285		1,000 tons	180
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

What is the 24 hr. 2:	5 yr. storm	event at t	his facility 2.5 inches		SCHOOL STATE OF THE STATE OF TH	
			Type of lot (dirt or pay	/ed): dirt	. - consideración ana pod automobinació para de nativo bratil media para el consideración de consideración	
~			CAFO that enters confi		and waste storage,	
What is the annual p	precipitatio	on during	the critical storage perio	d7-10 i	nches	
How much freeboar	d do the po	ond(s) hav	e 1 foot	nga silang dinggan kanada saka dan pilang silang		
4. Disposal of Dead	Animals.					
Describe how dead a Depending on seas buried in compost p	on. Some	e disposed e are burie	of at this facility: ed in trenches and cover	red right away	. At other times the	ey are

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:
Gutters are recently installed and piped away from corrals. We isolated corral water from rain water by erecting dirt berms and concrete walls.

6. Prohibiting Animals and Wastes from Contact with State Waters

Describe how animals and wastes are prohibited from direct contact with state waters:

All animals are housed in buildings and dry lots. All water from lots is diverted to a holding pond.

Describe how Chemicals and other contaminants are handled on-site: Chemicals are stored in enclosed buildings on concrete floors in a seperate building.

7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Production Area BMP's

We recently constructed dirt berms and concrete walls so water from lots cannot contaminate other fresh water. the contaminated water is piped to a containment pond. We installed gutters and piped that water out of lots. We use water to cool milk through a plate cooler and use "gray water" to wash holding area facilities.

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

Section E – Land Application Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? Yes If yes, then the information requested in Section E must be provided. No If no, then provide an explanation of how animal waste at this facility are managed.
Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items: Individual field boundaries for all planned land application areas A name, number, letter or other means of identifying each individual land application field The location of any downgradient surface waters. The location of any downgradient open tile line intake structures The location of any downgradient sinkholes The location of any downgradient agricultural well heads The specific manure/waste handling or nutrient management restrictions associated with each land application field The soil type(s) present and their locations within the individual land application field(s) The location of buffers and setbacks around state surface waters, well heads, etc.
Land Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibration procedures:
A truck that holds 3400 gal;10 ton straw spreader; plow to inject manure with flow meter.
Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater. Manure Sample collection will occur according to ARM 17.30.1334
Other (describe)
We use Harris Lab. for manure samples and AGVISE for soil samples.
Soil Sampling and Analysis Procedures Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater
Soil complex collection will occur according the methods in ARM 17.30.1334

Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe)

We use 24 inch probe on soil samples. Manure from slurry is collected at halfway point and sent to lab

Phosphorus Risk Assessment

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

middle. Block Nutrient Budget Worksheet 11/ Second Crop: Field identification: That Rad Year: Tract Expected Crop Yield: Phosphorus index results or Phosphorus application from soil test: Tenfection Method of Application: When will application occur: Source of Nitrogen-based Phosphorus-Nutrient Budget information based Application Application 130# guidelino Crop Nutrient Needs, 32 1 lbs/acre Credits from previous (-) 2 legume crops, lbs/ac MANGO Residuals from past manure 62 (-) 3 production lbs/acre Nutrients supplied by commercial fertilizer and 4 (-)hone none Biosolids, lbs/acre Nutrients supplied in irrigation water, lbs/acre 5 (-)Fred in olderis = Additional Nutrients 68 13 6 Needed, lbs/acre maruse Total Nitrogen and 40,8 19.8 Sample Phosphorus in manure, 7 lbs/ton or lbs/1000 gal (from manure test) Usa, P Nutrient Availability factor, 100 % 90% for Phosphorus based 8 (x)application use 1.0 James E = Available Nutrients in 36,72 19.8 Manure, lbs/ton or 9 lbs/1000 gal Her delines Additional Nutrients 13 68 needed, lbs/acre (calculated 10 Wanusc above) Available Nutrients in Sampla 36.72 Manure, lbs/ton or lbs/1000 (/)11 185/gal 656 gal. soil sample gal (calculated above) = Manure Application Rate, tons/acre or 1000 12 gal/acre chycited 250,000 gall on 50 acres = 5,000 gal an acre Comments:

				sol	l test	F	REPORT	······································			REF\$ 11778182 LABS 68030 BOXS 0							
Soil Analysis by: Northwood:	O R ATORIE Agvise Laboratories (701) 587-8010 320) 843-4109	SA S CF TV SE	FIELD WEST SHANNON SAMPLE CNTY TWP SEC 0 QTR ACRES 0 PREV CROP						Field	L	pcat	ion						
SUBMI PVC PETER	TTED FOR:	17 G	SUBMITTED BY MO4720 MT. VIEW COOP-GREAT FALLS 1700 62ND ST N GREAT FALLS,MT 59405						S	ANGERIA CONTRACTOR	E							
Date Sampled:	8/27/2010			Date Re	celved:	n.ecco.	9/	30/2010			Date	Reported:			10/2/2	010		دويم
NUTRIEN	IT IN SOIL	IN VLow	TERPR	ETATIC Med	ON High		1st CR	OP CHOIC	E		2nd CROF	CHOICE		3rd	CROP	СНС	PICE	
Q-6" 6-24" Q-24"	20 lb/ac 42 lb/ac 82 lb/ac						Yk	old Goal			Vield	Goal			Yleid	Goal		
Nitrate							SUGGESTE				UGGESTED	GUIDELINE		SUGGE			ELINES	
Olsen Phosphorus	mag et	-00054]		40000		N				N			N		Arr.		
Potassium	308 ppm	*****		*****	*****		P ₂ O ₅			P	205			P205				
Chloride							K ₂ O			=	(z0 C) S			к _ф о сі 8				
Sullur							S				в		퓍	В				4
Boron							В	<u> </u>		H	Zn		_	Zn				4
Zinc							Zn			片			\dashv					╣
Iron							Fe			F	Fe		닉	Fe				4
Manganese					<u> </u>		Mn			L	Mn			Mn				4
Copper					<u> </u>	$\ $	Cu			L	Çu			Çu	Щ			
Magnesium					<u> </u>		Mg				Mg			Mg				
Calcium			<u> </u>	\[4	⊔me		·····		Lime			Lime				
Sodium		<u></u>	-][4				7		% Base S	oti ira	tion Charles	Pone	`		٦
Org. Matter	3.3 %	******			╬	╣	Soli pH	Buffer pH	Cestion Exchang	10		7 0420 31		II T	n Karge	<u> </u>		4
Carbonate 0-6* 6-24" Sol. Salts	0.36 mmho/cm 0.32 mmho/cm	*****	74				7.8		Capacil	У	% Ca	% Mg		% K	% Na		% H	
1																		

. .





1532 Dewitt

Ellsworth, IA 50075

Tel: 515-836-4444 Fax: 515-836-4541 REPORT OF ANALYSIS

Submitted By:			
PLEASANT VALLEY COL	ONY.		
734 MCCOY RD			
BELT	MT	59412	

Sample Type Manure

Submitted For:

PLEASANT VALLEY COLONY / CHICKEN SLURRY

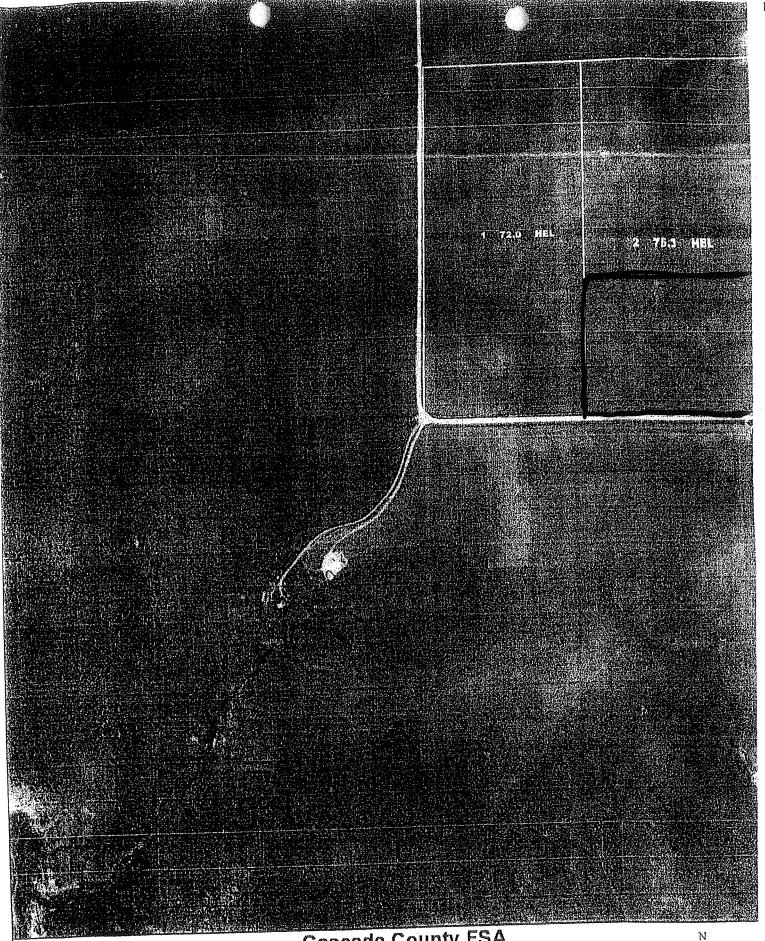
Date Recleved	Date Reported 1/4
5/16/2013	5/20/2013

Acct No. Laboratory Sample No.

Linc21 16048

REPORT OF ANALYTICAL RESULTS

Client Sample Iden	tification	Analysis As Received	Nutrients as Lbs/1000 gal
	Organic Nitrogen, % N	0.12 %	10.3
	Ammonium, % N	0.37 %	30.5
	Nitrate, % N	%	
	Total N (TKN), % N	0.49 %	40.8
	Phosphorus, % P2O5	0.24 %	19.8
	Potassium, % K2O	0.24 %	20.1
	Sulfur, % S	0.03 %	2.3
	Calcium, % Ca	0.32 %	26.6
	Magnesium, % Mg	0.04 %	3.4
	Sodium, % Na	0.05 %	4.2
	Zinc, ppm Zn	25 ppm	0.2
	Iron, ppm Fe	65.2 ppm	0.5
	Manganese, ppm Mn	33.9 ppm	0.3
	Copper, ppm Cu	4.1 ppm	0
	Soluble Salts, mmho/cm		
	рН		
	Moisture, %	94.62 %	
	Dry Matter, %	5.38 %	



Farm: 6347

F go Dout Tract: 8205 legal: 33 19N 5E

Cascade County FSA

May 7, 2007



Jutrie Gield	ent B	udget Worksheet iffication: 18, 19, 17, 16, 15 Year:	2013 Cr	op: Wenter	What	
			'· · /	oil test:	\overline{q}	
host	ohom	Crop Yield: 50 A	application from s	son test:		
Meth	od of	Application: Confe	11111	leet.		1
When	a wil	application occur:	1301	Phosphorus-	Source of	1
Vutri	ent E	Budget	Nitrogen-based Application	based Application	information	
			130# fr. 50 bi	,	Ferlilizer.	
1		Crop Nutrient Needs,	Rior audilia	3/	Quidelines	
1		lbs/acre	from gumus			
2	(-)	Credits from previous	4.1.2.00	pone	no legune or	JS.
2	(-)	legume crops, lbs/ac	MONEY			*
3	(-)	Residuals from past manure	26	29	Jak sample	
	()	production lbs/acre	Manse		/	
		Nutrients supplied by commercial fertilizer and	Hard		h 1 /1	
4	(-)		142.8 lb.	none.	1111	_
		Biosolids, lbs/acre	I VIII OF THE		ry l A	
5	(-)	Nutrients supplied in irrigation water, lbs/acre	IVA _	NA	11/4	-
		= Additional Nutrients	1/1/		Fert midelines	,
6		Needed, lbs/acre	104 lbs.	1 2	Juanin	
		Tiveres in the second			and the superior	
		Total Nitrogen and	8 lbs.		w/a week	
		Phosphorus in manure,	0 000	3./	nlamed Dangele	
7		lbs/ton or lbs/1000 gal			Na. of	
		(from manure test)			111 0	
		Nutrient Availability factor		1100/	Deg. 9	
8	(x)	for Phosphorus based	90%	100%		
		application use 1.0	10 10		hlanure	
		= Available Nutrients in		- /	Sample	
9		Manure, lbs/ton or	7.2 lbg.	3./	Sample	
		lbs/1000 gal	en e	English Estimate		
	1,15	A Illiained Mytmonte		27		
		Additional Nutrients needed, lbs/acre (calculated	1 6/12	2	W W	
10		above)	450	·	Buideline	
-	+	Available Nutrients in	0	2/		
11	10	11. 7/100	0 7.2	3./	10.2 x	an lin
11	(/)	gal (calculated above)			- Manual Das	746
-	+-	= Manure Application	oran not	1150	Manuel son Manuel to Manuel to Joel somp	-
12	,	Rate, tons/acre or 1000	8500 gal.	643 90	4 1 10 10 10	10
12	-	gal/acre	/	Y	Jour same	(علا)
ents:			, 1	/		
omo.	1/0.7	appling on pho	1 phony to	300	11 To her	
	uci,	7/00/	1 50 Ker wir.	1000 11. has	· MANDER	

Rev. July 2013



Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109

FIELD ID WARD SAMPLE ID

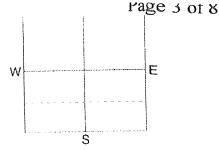
FIELD NAME

COUNTY

TWP SECTION PREV. CROP RANGE

QTR

ACRES 0



SUBMITTED FOR:

SUBMITTED BY: MO4720

MT. VIEW COOP-GREAT FALLS

1700 52ND ST N

GREAT FALLS, MT

59405

14741403 BOX # REF #

NW60195 LAB #

Date Sampled 09/11/2013

Date Received 09/17/2013

Date Reported 9/23/2013

0

Nutrient In	The Soil	In	terpr	etatio	on	15	cro	o Choice		2nc	l Crop	Choice	_ _	3rd	Crop	Choic	e
		VLow	Low	Med	High	,	Wheat-	High Pro.		٧	Vheat-Hi	gh Pro.		١	Wheat-H	igh Pro.	
0-6"	14 lb/ac						YIELD	GOAL			YIELD (GOAL			YIELD	GOAL	
6-24"	12 lb/ac	****					45	Bu			50	Bu			55	Ви	
0-24"	26 lb/ac					SUG	SESTEC	GUIDELINES		SUGO	SESTED (GUIDELINES		SUGO	SESTED	GUIDELIN	ES
Nitrate							Band	/Maint.			Band/N	1aint.			Band/	Maint.	
· ·						LB/A	CRE	APPLICATI	ON	LB/A	CRE	APPLICATIO	N	LB/A	CRE	APPLICA	ATION
Olsen	29 ppm	*****	****	****	*****	N	118	Customize	bs	N	134	Customized		N	150	Custon	lzed
Phosphorus Potassium	250					P ₂ O ₅	28	Band *		P ₂ O ₅	31	Band *	P	₂ O ₅	34	Banc	*
0-24"	360 ppm 20 lb/ac					K ₂ O	10	Band (Starter)	¢	K₂O	10	Band (Starter)*		K₂O	10	Bar (Start	
Chloride 0-6"	18 lb/ac	****	****			CI	20	Broadcas	st	CI	20	Broadcast		Cl	20	Broad	cast
6-24" Sulfur	30 lb/ac	****	*****	*****	*	s	5	Band (Tri	al)	s	5	Band (Trial	1)	S	5	Band (irial)
Boron	0.8 ppm	****	****			В	0			В	0			В	0		
Zinc	3.00 ppm	****	****		*****	Zn	0			Zn	0			Zn	0		
Iron	34.6 ppm	****	****	*****	*****	Fe	0			Fe	0			Fe	0		
Manganese	8.4 ppm	****	****	*****	*****	Mn	0	1		Mn	0			Mn	0		
Copper	2.17 ppm	1		1		Cu	0	1		Cu	0			Cu	0		***************************************
Magnesium	251 ppm 6606 ppm			1		Mg	0			Mg	0			Mg	0		
Sodium	18 ppm	1				Lime	 			Lime				Lime			***************************************
Org.Matter	4.9 %	1	*****	*****	**]===	- T		Ca	tion Exc	hange	% Bas	e Satu	ratio	on (Ty	pical Rar	ige)
Carbonate(CCE)	4.1 %	****	*****	****		Soli	рΗ	Buffer pH	\ \	Capac		% Ca	% N		% K	% Na	% H
0-6" 6-24"	0.41 mmho/cm 0.3 mmho/cm	11	1			0-6"				36.1 m	ieq	(65-75) 91.4	(15-2 5.8	. 1	(1-7) 2.6	(0-5) 0.2	(0-5)

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

Crop 1: The nitrogen guideline for this recommendation has been customized by the submitter. 44 lbs of 0-0-60 = 20 lbs of Chloride" * Caution: Seed Placed Pertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 28 K20 = 17 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: The nitrogen guideline for this recommendation has been customized by the submitter. 44 lbs of 0-0-60 = 20 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 3: The nitrogen guideline for this recommendation has been customized by the submitter. 44 lbs of 0-0-60 = 20 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 34 K20 = 21 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.





1532 Dewitt Ellsworth, IA 50075

Tel: 515-836-4444

Fax: 515-836-4541

REPORT OF **ANALYSIS**

Submitted By:	til.		
PLEASANT VALLEY COLOR	٧Y		
734 MCCOY RD			
BELT	MT	59412	

Sample:Type:::-::::	Manure
Submitted For 2015	
PLEASANT VALLEY COLON	Y / DAIRY

Date Recieved	Date Reported 1	
5/16/2013	5/20/2013	

Acctino.	Laboratory Sample No?
LINC21	16047

REPORT OF ANALYTICAL RESULTS

Client Sample Identifica	ation	Analysis Receiv		Nutrients as Lbs/1000 gal
	Organic Nitrogen, % N	0.09	%	7.3
	Ammonium, % N	0.18	%	14.7
	Nitrate, % N		%	
	Total N (TKN), % N	0.26	%	22
	Phosphorus, % P2O5	0.07	%	5.5
	Potassium, % K2O	0.25	%	20.8
	Sulfur, % S	0.03	%	2.1
•	Calcium, % Ca	0.17	%	14.2
	Magnesium, % Mg	0.04	%	3.3
	Sodium, % Na	0.07	%	5.9
	Zinc, ppm Zn	7.1	ppm	0.1
	Iron, ppm Fe	30.7	ppm	0.3
	Manganese, ppm Mn	9	ppm	0.1
	Copper, ppm Cu	21.7	ppm	0.2
	Soluble Salts, mmho/cm			
	рН			
	Moisture, %	94.63	%	
	Dry Matter, %	5.37	%	

2013 Havis hog man Nutrient Budget Worksheet Winter Wheat Crop: Field identification: 23424 Year: Expected Crop Yield: Phosphorus index results or Phosphorus application from soil test: Method of Application: When will application occur: Source of Phosphorus-Nitrogen-based Nutrient Budget information based Application Application Feil. 130# for 50.60. 31 201. Crop Nutrient Needs, 1 lbs/acre Credits from previous 11016 2 (-)110n.c. legume crops, lbs/ac Residuals from past manure 51 lb. 3 (-) production lbs/acre Nutrients supplied by commercial fertilizer and 4 (-)none Mone Biosolids, lbs/acre Nutrients supplied in NA NA irrigation water, lbs/acre 5 (-)Fest audeline = Additional Nutrients 79 6 Needed, lbs/acre planuce Total Nitrogen and 24.1 sample Phosphorus in manure, 9,5 lbs/ton or lbs/1000 gal 7 (from manure test) chea 9 Nutrient Availability factor, 100 % 90% for Phosphorus based 8 (x) application use 1.0 Manuel = Available Nutrients in Janple 21.69 9.5 Manure, lbs/ton or 9 lbs/1000 gal Guidelines Additional Nutrients 14 needed, lbs/acre (calculated 10 above) 1473 gal. Manust Available Nutrients in 21,69

	gal/acre		
Comments:			

36429al.

3,500,000 gal on 437ac. = 8,000 gal acre CAFO Nutrient Management Plan

Manure, lbs/ton or lbs/1000

gal (calculated above)

= Manure Application

Rate, tons/acre or 1000

Rev. July 2013

(/)

11

12

Soil Wantel



P.O. BOX 510, NORTHWOOD, ND 58267 (701) 587-6010

Soil iedikiekuja

FIELD SOUTH WEST HARRIS

SAMPLE

COUNTY

TWP

SECTION

QTR

ACRES

PREV CROP

WINTER WHEAT

SUBMITTED FOR:

PLEASANT VALLEY COLONY 734 MCCOY ROAD

BELT, MT

59412

SUBMITTED BY:

PLEASANT VALLEY COLONY PETER WIPF PLUMMER

734 MCCOY RD

BELT, MT

59412

PL4403

12484027 REF#

22732 LAB#

BOX # 90

E

DATE RECEIVED

5/15/13

DATE REPORTED

W

5/16/13

S

)ATE SAMPLED	5/ 1/13	DATE RECEIVE	ED 5/15/1 3	DATE REPORTED	3/16/13
NUTRIENT IN		INTERPRETATION VLOW LOW MED HIGH	1ST CROP CHOICE	SND CHOP CHOICE	3RD CROP CHOICE
0- 6*	9 lb/ac		YIELD	YIELD GOAL	YIELD GOAL
6-24" 0-24"	42 lb/ac 51 lb/ac	11111111	GOAL SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES
				LB/ACRE APPLICATION	
Vitrate N	ACCESSION TO THE PROPERTY OF T		LB/ACRE APPLICATION.		LB/ACRE APPLICATION
			N.	N	N.
Olsen Phosphorus	17 ррж	***** **************	P ₂ O ₄	P ₂ O ₅	P ₂ O ₄
Potassium	239 ррш	*******	K:O	KjO	Ko
Chloride Chloride			CI	CI	CI
Sulfur			S	S	S
Boron			В	В	В
Zinc	0.84 ppa	************	Zo	Zn.	Zn
2110	.,		Fe	Fe	Fe
Iron			(FG)		
Manganese			Mn	Mn	Mn
Copper			Cu	Cu	Cu
Magnesium.			Mg	Mg	Mg
Calcium			Lime	Lime	Lime
Sodium			Line		
nrganic Matter	4.2 %	11111111111111111111111	Soil Buffer	Cation % Base Exchange Capacity % Ca* % I	Saturation (Typical Range) Mg %K %Na %H
onate (CCE)	0,32 mmho/cm	*****	0- 6° 7.7	Capacity 70 90 301	19.1N 76.1Va. 76.1V
Auble v - c Alts 6-24*	0.33 maho/cm	1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6-24"		

Thon & Breaking South & middle Block 8206) Nutrient Budget Worksheet Winter wheat Crop: Field identification: 29/65, 2966 Expected Crop Yield 28 Phosphorus index results or Phosphorus application from soil test: Method of Application: Whereh and When will application occur: Source of Nitrogen-based Phosphorusinformation Nutrient Budget based Application Application Feet, 130 H quidelina Crop Nutrient Needs, 32 1 lbs/acre Credits from previous MOTIL 2 (-) legume crops, lbs/ac Residuals from past manure 28 58 lbs. 3 (-)production lbs/acre 34 lbs. Nutrients supplied by commercial fertilizer and Marines Man none (-)4 Biosolids, lbs/acre Nutrients supplied in irrigation water, lbs/acre 5 (-)Let de lane = Additional Nutrients 12 6 Needed, lbs/acre Manuse Total Nitrogen and Danyle 10,7 Phosphorus in manure, 6.2 7 lbs/ton or lbs/1000 gal (from manure test) Meg, 9 Nutrient Availability factor, 100 % 50% for Phosphorus based 8 (x)application use 1.0 Marine = Available Nutrients in parple 6.2 6.35 Manure, lbs/ton or 9 lbs/1000 galBudelines Additional Nutrients needed, lbs/acre (calculated 10 manuc above) Available Nutrients in 5.35 Barrille Manure, lbs/ton or lbs/1000 13.45 tors 64 tors market (/)11 gal (calculated above) = Manure Application and sample Rate, tons/acre or 1000 12 Spread 1175 tow on 1810a. - 652 ton per acuse. gal/acre Comments:



Soil Analysis by Agvise Laboratories Northwood: (701) 587-6010 Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SAMPLE ID DRYPACK FIELD NAME

COUNTY TWP

SECTION PREV. CROP ACRES 0

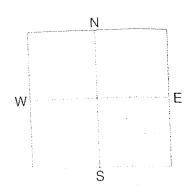
SUBMITTED BY: MO4720

OTR

MT. VIEW COOP-GREAT FALLS

1700 52ND ST N

59405 **GREAT FALLS, MT**



13423281 BOX # 0 REF #

NW60270 LAB #

Date Sampled 08/28/2012

PLEASANT VALLEY COLONY

ATTN: PETER

Date Received 08/31/2012

Date Reported 9/6/2012

				etation	1st	Crot	o Choice	2nc	l Crop	Choice	3rd	Crop	Choic	e
Nottrient In Ti	ie Soil	141) (e See Shahi		t-High		Whe	at-High	Pro. ♀	Wheat	-High I	Pro.	\$
0-6°	19 lb/ac								YIELD			VIELD	GOAL	
6-24"	39 lb/ac	*****	*****			YIELD	GOAL	+=			60	$\overline{}$	Bu	\exists
	58 lb/ac				40 Bu			50		Bu	4		GUIDELII	NEC
0-24"	30 137 23				SUGGESTED GUIDELINES			SUGG	ESTED	GUIDELINES	Suggi	->1ED	GOLDELLI	INCO
trate					Band/Maint. 🕏		Ва	Band/Maint. 🕏			d/Main	t.	\$	
Olsen	28 ppm	****	****	*********	LB/A	RE	APPLICATION	N LB/A	CRE	APPLICATION	LB/AC	RE	APPLICA	NOIT
hosphorus					 	62		N	92		N	122		
otassium	238 ppm	****	*****	********	P ₂ O ₅	25	Band *	P ₂ O ₅	31	Band *	P205	38	Band	*
0-24"	24 lb/ac	*****	***		K ₂ O	15	Band *	K ₂ O	19	Band *	к20	23	Band	*
hloride 0-6"	12 lb/ac	****	****		CI	16	Broadcast	CI	16	Broadcast	CI	16	Broade	cast
6-24"	18 lb/ac	1	*****		s	7	Band (Trial		7	Band (Trial) 5	7	Band (1	(rial)
Sulfur	0.5 ppm	****	***		В	0		В	0		В	0		
Boron Zinc	2.03 ppm	***	****	******	20	0		Zn	0		Zn	0		
Iron	46.4 ppm	****	****	******	831.1	0		Fe	0		Fe	0		
Manganese	14.0 ppm			******		0	<u> </u>	Mn	0		Mn	0		
Copper	3.52 ppm	11		******	Cu	0		Cu	0		Cu	0		
Magnesium	228 ppm			1000000	劉	0		Mg	0		Mg	0		
Calcium	4170 ppm	****	*****			-		Lime	2 0		Lime	0		
Sodium	12 ppm			1	Lime	0				N/ Book	e Saturati	nn (Tv	oical Ra	nae)
Org.Matter	3.9 %		*****		So.	Hq li	Buffer pH		Cation Exchange		% Mg	% K	% Na	% 1
Carbonate(CCE)	0.7 %									% Ca	(15-20)	(1-7)	(0-5)	(0-5
0-6" 6-24" Sol. Salts	0.37 mmho/cn 0.32 mmho/cn		188 BB		0-6	" 6.8		23.4	meq	(65-75) 89.1	8.1	2.6	0.2	

Crop 1: 35 lbs of 0-0-60 = 16 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 25 K20 = 15 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then

Crop 2: 35 lbs of 0-0-60 = 16 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 31 K20 = 19 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then

Crop 3: 35 lbs of 0-0-60 = 16 lbs of Chloride" * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.





1532 Dewitt

Ellsworth, IA 50075

Tel: 515-836-4444

Fax: 515-836-4541

REPORT OF ANALYSIS

SubmittedBy			
PLEASANT VALLEY C	OLONY		
734 MCCOY RD			
BELT	MT	59412	
	and the second s		

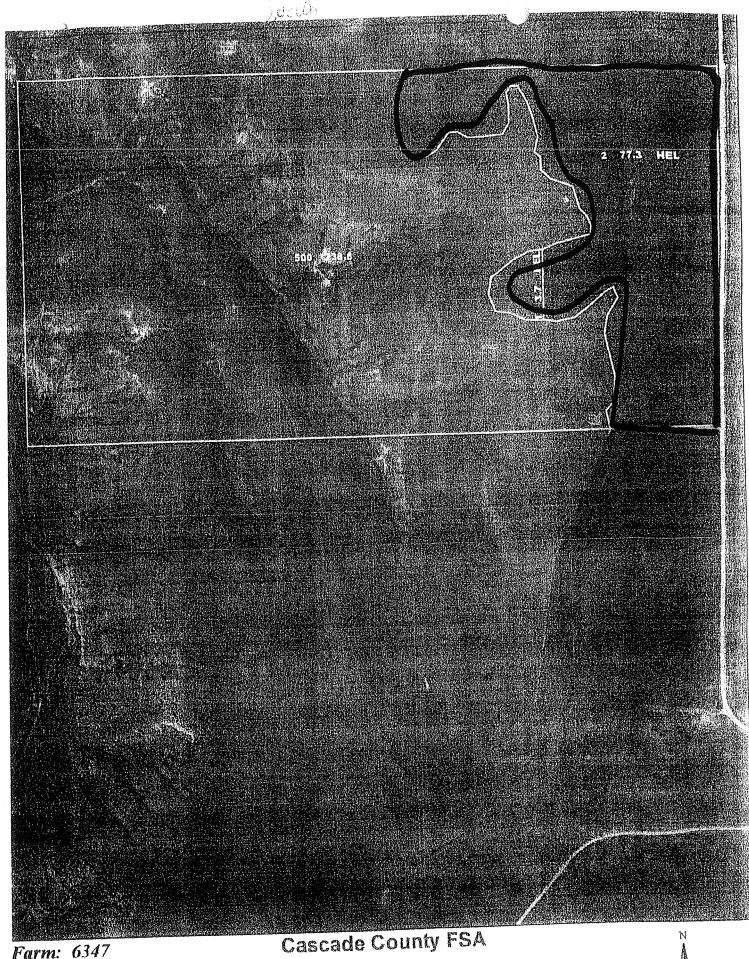
All the state of t	
PLEASANT VALLEY COLONY / DRY PACK	

Date Recieved	Date:Reported
5/16/2013	5/20/2013

AcctiNol (1977) 1880 1981	Laboratory Sample No.
LINC21	16049

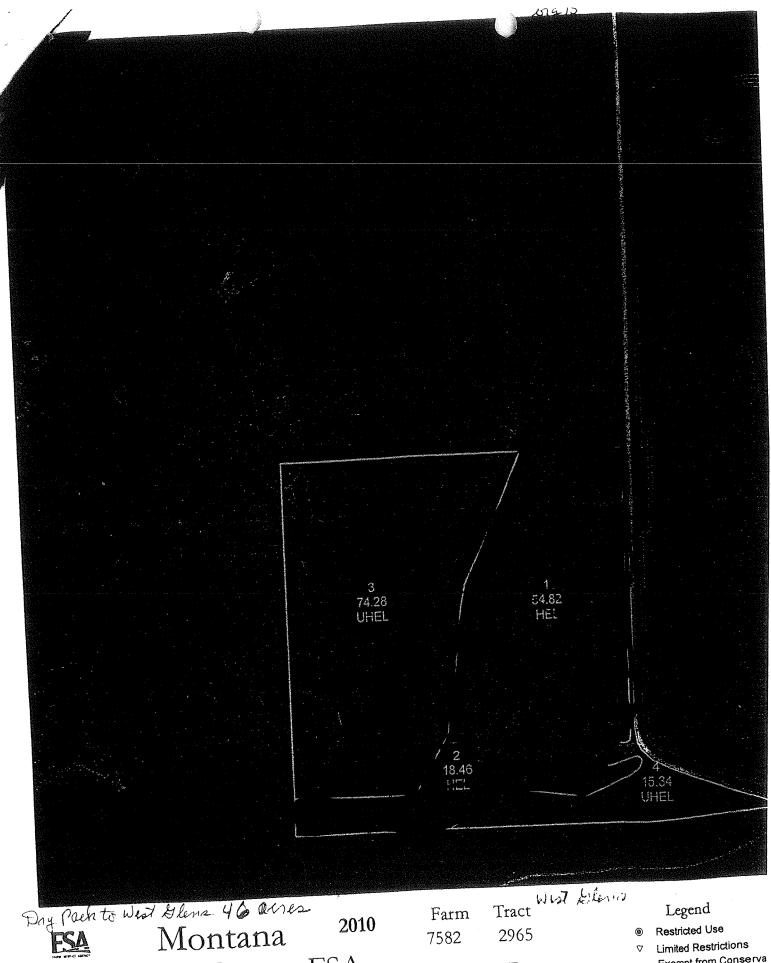
REPORT OF ANALYTICAL RESULTS

Client Sample Identificat	ion	Analysis Receiv		Nutrients as Lbs/Ton
	Organic Nitrogen, % N	0.53	%	10.6
•	Ammonium, % N	0.01	%	0.1
	Nitrate, % N		%	
	Total N (TKN), % N	0.54	%	10.7
	Phosphorus, % P2O5	0.31	%	6.2
	Potassium, % K2O	0.8	%	16
	Sulfur, % S	0.08	%	1.7
	Calcium, % Ca	0.94	%	18.8
	Magnesium, % Mg	0.16	%	3.2
	Sodium, % Na	0.04	%	0.8
·	Zinc, ppm Zn	26.4	ppm	0.1
	Iron, ppm Fe	5232.9	ppm	10.5
	Manganese, ppm Mn	235.5	5 ppm	0.5
	Copper, ppm Cu	11.3	3 ppm	0
	Soluble Salts, mmho/cm			
	pH			
	Moisture, %	50.95	5 %	
	Dry Matter, %	49.08	5 %	



Farm: 6347 Tract: 2966 legal: 3 18N 5E

May 7, 2007



Cascade County FSA

2010

2965 7582

3 18N 5E

guesto original

- Restricted Use
- Limited Restrictions
- Exempt from Conserva Compliance Provisions Cropland
- /// Rangeland Non Ag Use

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